

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claims 1-27. (Canceled)

28. (Previously Presented) A method of inhibiting attachment of an inflammatory cell or protein to a medical device comprising coating said device with adherent N,O-carboxymethylchitosan such that inflammatory cell attachment is inhibited.

29. (Previously Presented) The method of claim 28, wherein said adherent N,O-carboxymethylchitosan is an adherent solution, hydrogel, paste, rehydratable film, or sponge.

30. (Previously Presented) The method of claim 28, wherein said adherent N,O-carboxymethylchitosan is covalently cross-linked.

31. (Previously Presented) The method of claim 28, wherein said adherent N,O-carboxymethylchitosan is ionically cross-linked.

32. (Previously Presented) The method of claim 28, wherein said medical device is selected from the group consisting of stents, catheters, pacemakers, breast implants, contact lenses and shunts.

33. (Previously Presented) The method of claim 28, wherein said inflammatory cell is selected from the group consisting of fibroblasts, macrophages, monocytes and lymphocytes.

34. (Previously Presented) A method of inhibiting substrate-dependent cell attachment in a cell-based product in contact with a solid support comprising contacting said cell based product with a solid support having an adherent NOCC coating.

35. (Previously Presented) The method of claim 34, wherein said adherent N,O-carboxymethylchitosan is an adherent solution, hydrogel, paste, rehydratable film, or sponge.

36. (Previously Presented) The method of claim 34, wherein said adherent N,O-carboxymethylchitosan is covalently cross-linked.

37. (Previously Presented) The method of claim 34, wherein said adherent N,O-carboxymethylchitosan is ionically cross-linked.

38. (Previously Presented) The method of claim 34, wherein said adherent N,O-carboxymethylchitosan is coated on said solid support.

39. (Previously Presented) The method of claim 34, wherein said cell-based product is a cell culture.

40. (Previously Presented) The method of claim 34, wherein said cell-based product is a biological sample.

41. (Previously Presented) The method of claim 40, wherein said biological sample is blood.

42. (Previously Presented) The method of claim 40, wherein said biological sample is plasma.